

NOTES ON THE HEPATIC FLORA OF THE ATHENS AREA

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In comparison with the hepatic flora of many adjacent states, that of Ohio has received relatively little attention. Since 1953, the writer has collected extensively in southeastern Ohio, chiefly in the neighborhood of Athens. Apparently no records of any liverworts from this area have been published. This report attempts to summarize all collections from the area up to the present.

An unpublished thesis by McCleary (1946) deals chiefly with mosses but furnishes authenticated records of 10 hepatics. Prescher (1946) collected approximately 38 species from Athens Township. The total reported was higher but unfortunately has been reduced by misidentified or unsatisfactory material.

Fifty-eight species, supported by specimens, are recorded at present. Substrate as observed in the area, relative abundance, and one collection from Athens County are cited for each. Records from neighboring Meigs and eastern Vinton County, which were included in this study, are appended. The writer's collections are referred to merely by collection number; those of others by collector and date. All specimens cited are deposited in the Ohio University Herbarium in Athens.

Liverworts are almost universally less common and occupy a narrower spectrum of habitats than mosses. The unglaciated hill country of southeastern Ohio is quite favorable, however, and comparatively rich in species. Constant moisture of the substrate and of the air is required by most liverworts, and damp, coarse-grained sandstone in rich, shady ravines is the outstanding hepatic habitat in the Athens area. Only a few species venture into relatively dry, exposed situations.

Ptilidiaceae

Ptilidium pulcherrimum (Web.) Hampe. On dry sandstone, sometimes decaying logs. Several collections, all from the East Hill area near Athens. Blickle, July 27, 1946, Sec. 3-4, Athens Twp.

Blepharostoma trichophyllum (L.) Dumort. On moist sandstone. Uncommon. 141, North Hill Caves near Athens.

Trichocolea tomentella (Ehrh.) Dumort. On moist sandstone and adjacent humus. Uncommon. 287, Waterloo Game Preserve.

Lepidoziaceae

Bazzania denudata (Torrey) Trevis. A single collection, from moist sandstone: 289, Waterloo Game Preserve.

Bazzania trilobata (L.) S. F. Gray. On moist sandstone, occasionally on adjacent mossy soil. Uncommon. 551, two miles north of Mineral. Also Vinton County: 2674, in ravine adjacent to Moonville Tunnel, Brown Twp. This species is much more widespread and luxuriant in the Hocking Caves region to the northwest.

Lepidozia reptans (L.) Dumort. On moist sandstone, sometimes decaying logs. Uncommon. 651, one-half mile northeast of Carbondale.

Microlepidozia sylvatica (Evans) Joerg. On moist sandstone. Uncommon. 576, North Hill Caves near Athens. Also Vinton County: 2649, along Racoon Creek near Arbaugh.

Calypogeiaceae

Calypogeia trichomanis (L.) Corda. Chiefly on moist sandstone overhangs. Common. 649, one-half mile northeast of Carbondale. Also Vinton County: 2962A, near Piney Point of Lake Hope; Meigs County: 152, near junction of Rte. 33 and Kingsbury Creek.

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Cephaloziaceae

- Cephalozia bicuspidata* (L.) Dumort. On moist sandstone, sometimes soil. Rather common. 190, Waterloo State Forest.
- Cephalozia media* Lindb. On moist sandstone, sometimes soil. Rather common. 119, North Hill Caves near Athens.
- Norwelleria curvifolia* (Dicks) Mitt. On moist decorticated logs, less frequently on sandstone. Rather common. 611, Stroud's Run, Canaan Twp. Also Vinton County: 2690, near Piney Point of Lake Hope.
- Odontoschisma denudatum* (Mart.) Dumort. A single collection, from a decaying stump: Blickle, July 27, 1946, Sec. 32-33, Athens Twp.
- Odontoschisma prostratum* (Sw.) Trevis. On moist sandstone, sometimes mossy soil. Uncommon. 517, Birch Hollow near Carbondale. Also Vinton County: 2675, in ravine adjacent to Moonville Tunnel, Brown Twp.

Harpanthaceae

- Lophocolea alata* Mitt. On moist sandstone. Rare. 675, Waterloo State Forest.
- Lophocolea heterophylla* (Schr.) Dumort. On wood, rocks, and soil. Quite common and widespread. 584, Burr Oak Lake, Trimble Twp.
- Chiloscyphus pallescens* (Ehrh.) Dumort. On moist rotting wood, soil, and sandstone. A few collections from Athens Twp. 683, Dobson's Hollow near Athens.
- Chiloscyphus polyanthus* (L.) Corda. A single collection, from moist soil: Prescher, June 20, 1946, Sec. 9-10-16, Athens Twp.
- Geocalyx graveolens* (Schr.) Nees. On moist sandstone. Rather common. 503, Birch Hollow near Carbondale. Also Vinton County: 2648, along Raccoon Creek near Arbaugh.

Jungermanniaceae

- Lophozia incisa* (Schr.) Dumort. In mats of *Cephalozia* on moist sandstone. Several collections, all from Athens Twp. 279, North Hill Caves near Athens.
- Jungermannia lanceolata* L. On moist sandstone. Several collections, all from Rome Twp. 2272C, just south of Broadwell.
- Jungermannia pumila* With. A single scanty collection, from moist sandstone: Prescher, July 2, 1946, Sec. 5-6-12, Athens Twp.
- Jamesoniella autumnalis* (DC.) Steph. On fairly dry sandstone. Common. 652, one-half mile northeast of Carbondale. Also Vinton County: 2662, Lake Hope State Park.
- Nardia lescurii* (Aust.) Underw. One scanty collection, probably this species, from moist sandstone: Blickle, June 28, 1946, Sec. 32-33, Athens Twp.
- Plectocolea crenulata* (Smith) Evans. A single collection, from an exposed clay bank: 581, North Hill Caves near Athens.
- Plectocolea crenuliformis* (Aust.) Mitt. A single collection, from moist sandstone: Prescher, July 2, 1946, Sec. 5-6-12, Athens Twp.
- Plectocolea hyalina* (Lyll) Mitt. On moist sandstone. Rather common. 158, along Rte. 33 near West Branch of Shade River, Lodi Twp.

Plagiochilaceae

- Plagiochila asplenioides* (L.) Dumort. Chiefly on moist sandstone. Quite common and widespread. 663, along Rockcamp Creek, Waterloo Twp. Also Vinton County: 2691, near Piney Point of Lake Hope; Meigs County: 2639, Forked Run State Park.

Scapaniaceae

- Diplophyllum apiculatum* (Evans) Steph. Chiefly on moist sandstone. Rather common. 121, North Hill Caves near Athens. Also Vinton County: 2676, in ravine adjacent to Moonville Tunnel, Brown Twp.
- Scapania nemorosa* (L.) Dumort. Chiefly on moist sandstone. Quite common and widespread. 227, two miles west of Broadwell. Also Vinton County: 2692, near Piney Point of Lake Hope.

Scapania undulata (L.) Dumort. On wet or submerged sandstone. Uncommon. 687, in Long Run southeast of Athens.

Porellaceae

Porella pinnata L. On moist sandstone adjacent to waterfalls. Apparently rare. 211, Crumley's Run, Canaan Twp.

Porella platyphylla (L.) Lindb. [including *P. platyphylloidea* (Schwein.) Lindb.] On sandstone, limestone, tree bases, and decaying logs, chiefly along streams. Quite common and widespread. 648, one-half mile northeast of Carbondale. Also Vinton County: 2685, Lake Hope State Park.

Radulaceae

Radula complanata (L.) Dumort. On sandstone, sometimes limestone. Fairly common. 634, near Concord Church, Ames Twp.

Radula obconica Sulliv. On moist sandstone, often growing over rootlets and other bryophytes; sometimes tree trunks. Fairly common. 637, along Rte. 56 opposite the Waterloo Game Preserve. Also Vinton County: 2632, Vinton Furnace Experimental Forest; Meigs County: 738, Forked Run State Park.

Frullaniaceae

Frullania asa-grayana Mont. On dry sandstone. Rather common. 639, on Rte. 56 opposite the Waterloo Game Preserve. Also Meigs County: 2636, Forked Run State Park.

Frullania brittoniae Evans. On dry sandstone and tree trunks. Common. 2272A, along Rte. 329, Rome Twp.

Frullania eboracensis Gottsche. On tree bark and probably rocks. Probably fairly common. Prescher, June 21, 1946, Sec. 29-30, Athens Twp.

Frullania plana Sulliv. A single collection, from moist sandstone: 2615, Stroud's Run, Canaan Twp.

Frullania riparia Hampe. On moist sandstone, possibly indicating the presence of lime, and tree bases. Uncommon. 213, Crumley's Run, Canaan Twp. Also Vinton County: 2673, near town of Hope.

Jubula pennsylvanica (Steph.) Evans. On moist sandstone. Fairly common. 575, North Hill Caves near Athens. Also Meigs County: 2272, Forked Run State Park.

Lejeuneaceae

Leucolejeunea clypeata (Schwein.) Evans. On rather dry sandstone, sometimes tree bark. Fairly common. Prescher, June 24, 1946, Sec. 29-30, Athens Twp. Also Vinton County:

538, along Raccoon Creek near Moonville; Meigs County: 2640, Forked Run State Park.

Cololejeunea biddlecomiae (Aust.) Evans. On fairly dry to moist sandstone and bark, frequently on mosses. Common. 658, along McDougall Branch, Ames Twp. Also Vinton County: 2688, Lake Hope State Park.

Fossombroniaceae

Fossombronia wondraczeki (Corda) Dumort. On moist exposed soil. Fairly common. 605, near Buchtel Buffalo Beat.

Pelliaceae

Pellia epiphylla (L.) Corda. On moist sandstone and exposed soil. Common. 124, North Hill Caves near Athens. Also Vinton County: 2633, along Elk Fork, Vinton Furnace Experimental Forest.

Blasiaceae

Blasia pusilla L. A single collection, from wet clayey banks of stream: Prescher, July 11, 1946, Sec. 1-2-7, Athens Twp.

Pallaviciniaceae

Pallavicinia lyellii (Hook.) S. F. Gray. On wet rotting wood, soil, and among other bryophytes on sandstone. Uncommon. 643, one-half mile northeast of Carbondale. The species is much more plentiful in peat bogs elsewhere in Ohio.

Metzgeriaceae

Metzgeria conjugata Lindb. Chiefly on moist sandstone. Fairly common. 2614, Stroud's Run, Canaan Twp. Also Meigs County: 2637, Forked Run State Park.

Riccardiaceae

Riccardia multifida (L.) S. F. Gray. A single sterile collection, probably this species, from a tree base: Blickle, September, 1953, one mile east of Athens.

Riccardia pinguis (L.) S. F. Gray. On sandstone and moist rotting wood. Uncommon. 516, Waterloo Game Preserve. Also Vinton County: 2635, Vinton Furnace Experimental Forest.

Marchantiaceae

Marchantia polymorpha L. On wet soil. A few old collections from Athens Township from stations now apparently destroyed. Prescher, June 21, 1946, Sec. 9-10-16, Athens Twp.

Preissia quadrata (Scop.) Nees. A single collection, from a moist sandstone face: Robinson & Blickle, March 24, 1954, two miles south of Broadwell.

Conocephalum conicum (L.) Dumort. On moist sandstone and soil. Quite common and widespread. 610, Stroud's Run, Canaan Twp. Also Vinton County: 2661, Lake Hope State Park; Meigs County: 2641, Forked Run State Park.

Rebouliaeeae

Reboulia hemisphaerica (L.) Raddi. On moist sandstone and soil. Uncommon. 512, Waterloo Game Preserve.

Asterella tenella (L.) Beauv. On moist soil. Uncommon. Robinson, March 11, 1955, Carbondale Forest, York Twp.

Ricciaceae

Ricciocarpus natans (L.) Corda. A single collection, from a stagnant pond: 2647, remains of old Hocking Canal north of Armitage. A few sterile thalli of *Riccia* sp. have been observed on a muddy bank of the Hocking River near Athens.

Anthocerotaceae

Anthoceros laevis L. On moist exposed soil and sandstone. Common. 216, Athens State Hospital grounds.

Anthoceros punctatus L. A single collection, from a moist streambank: Prescher, July 11, 1946, Sec. 1-2-7, Athens Twp.

Notothylas orbicularis (Schwein.) Sulliv. Collected at a single station: 589, on moist exposed soil in wet meadow trampled by cattle, Waterloo Game Preserve; probably in similar situations elsewhere.

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